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This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(original). An arc welding solid wire whose surface comprises copper plated film, wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is controlled in the range between 50 and 88 %.

2(original). The arc welding solid wire of claim 1, wherein said elastic limit ratio is controlled by installing three to eight elastic limit ratio control vertical rollers and three to eight elastic limit ratio control transverse rollers which have a ratio D/d equal to 40 to 60 (where D is roller diameter and d is wire diameter) following coil control vertical and transverse rollers after final drawing.

Claim 3(canceled).

4(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 60.1.

5(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 61.2.

6(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 75.2.

7(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 76.6.

8(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 85.4.

9(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 86.1.

10(New). An arc welding solid wire of claim 1 wherein the elastic limit ratio (elastic limit/tensile strength) of the wire finally produced is 88.0.

11(New). An arc welding solid wire whose surface comprises copper plated film, wherein the elastic limit ratio, elastic limit per tensile strength, of the wire finally produced is controlled in the range between 60 and 88 %, wherein the elastic limit is the stress corresponding to the permanent elongation ratio of 0.05%.

13(New). The arc welding solid wire of claim 11, wherein said elastic limit ratio is controlled by installing three to eight elastic limit ratio control vertical rollers and three to eight elastic limit ratio control transverse rollers which have a ratio D/d equal to 40 to 60 (where D is roller diameter and d is wire diameter) following coil control vertical and transverse rollers after final drawing.

14(New). The arc welding solid wire of claim 1, wherein the elastic limit is the stress corresponding to the permanent elongation ratio of 0.05%.